

1a-g

- 1a: $R = (CH_2CH_2O)_5-CH_2CH_2$
- 1b: $R = (CH_2)_3$
- 1c: $R = (CH_2CH_2O)_2-CH_2CH_2$
- 1d: $R = CH_2CH(CH_2OH)$
- 1e: $R = (CH_2)_4$
- 1f: $R = 1',2'\text{-dideoxyribose}$
- 1g: $R = (CH_2)_6$

FIGURE 1

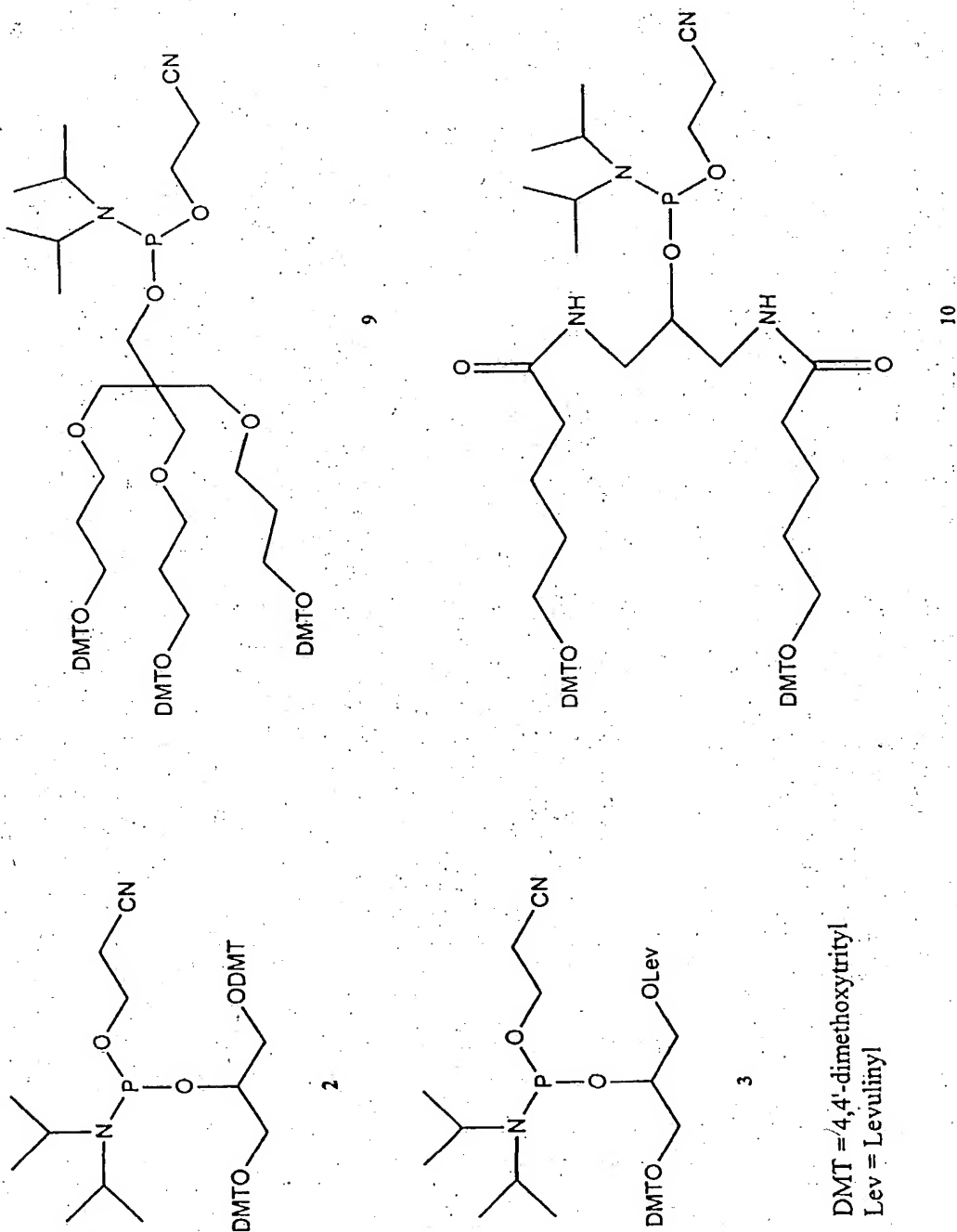


FIGURE 2

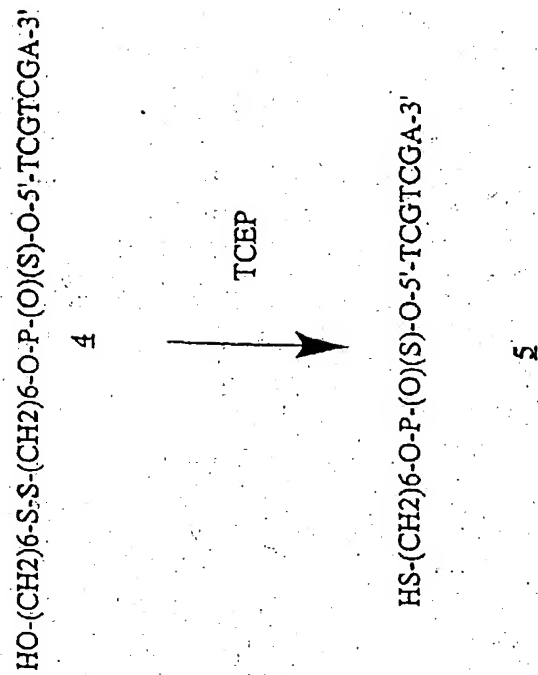


FIGURE 3A

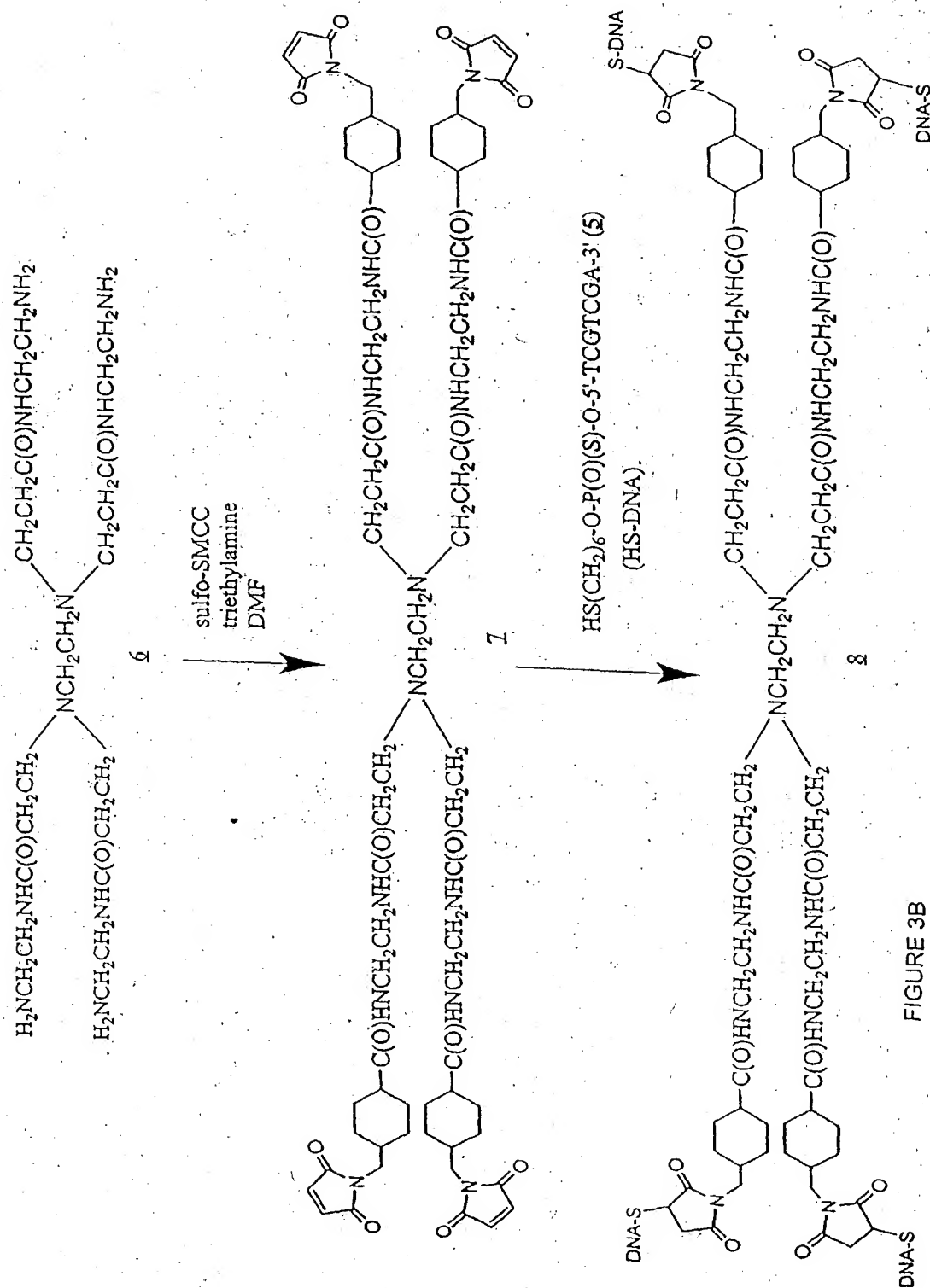


FIGURE 3B

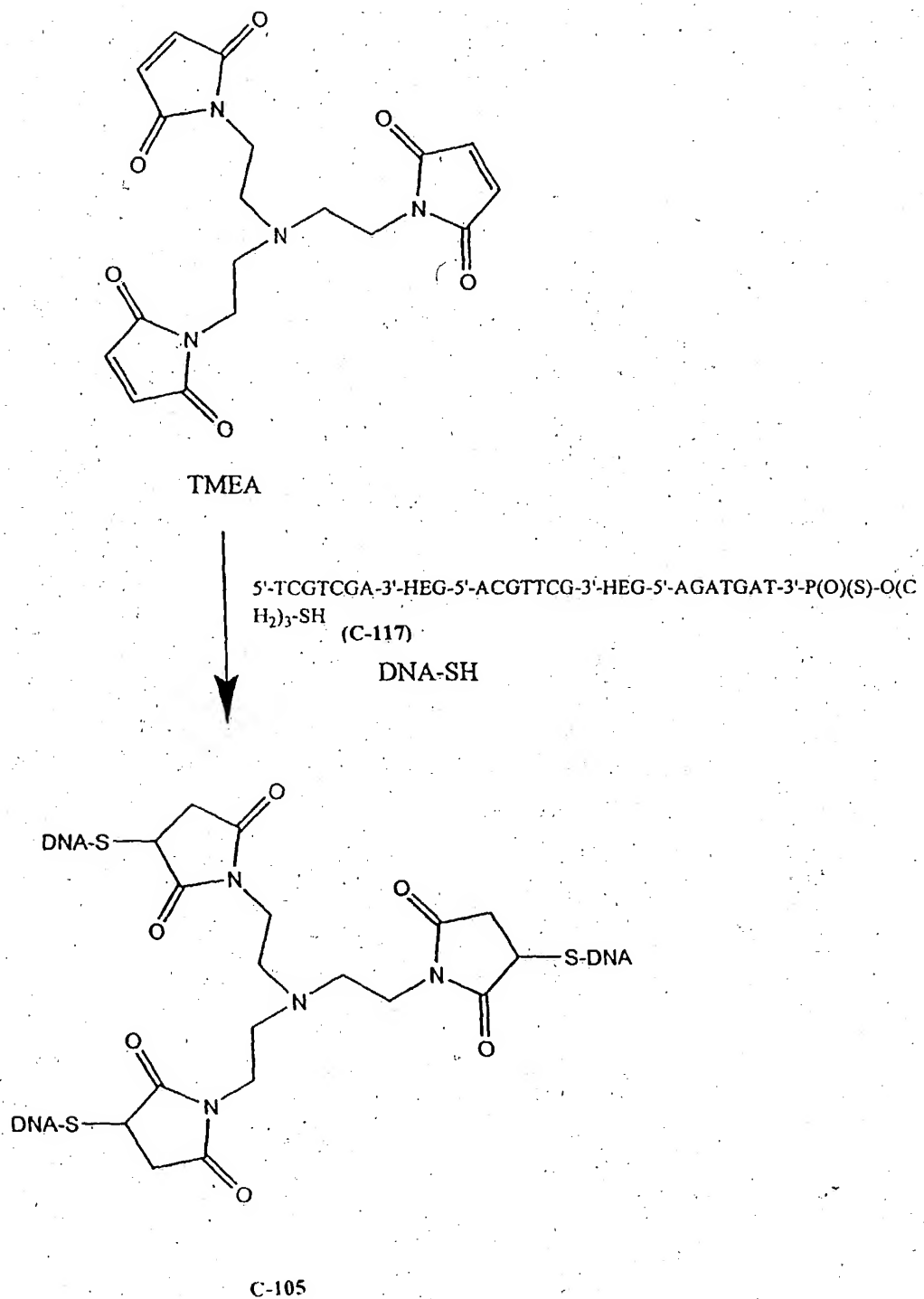


FIGURE 4

Gene Induction in Mouse Lung by Intranasal ISS P-6, CIC C-9 or CIC C-23

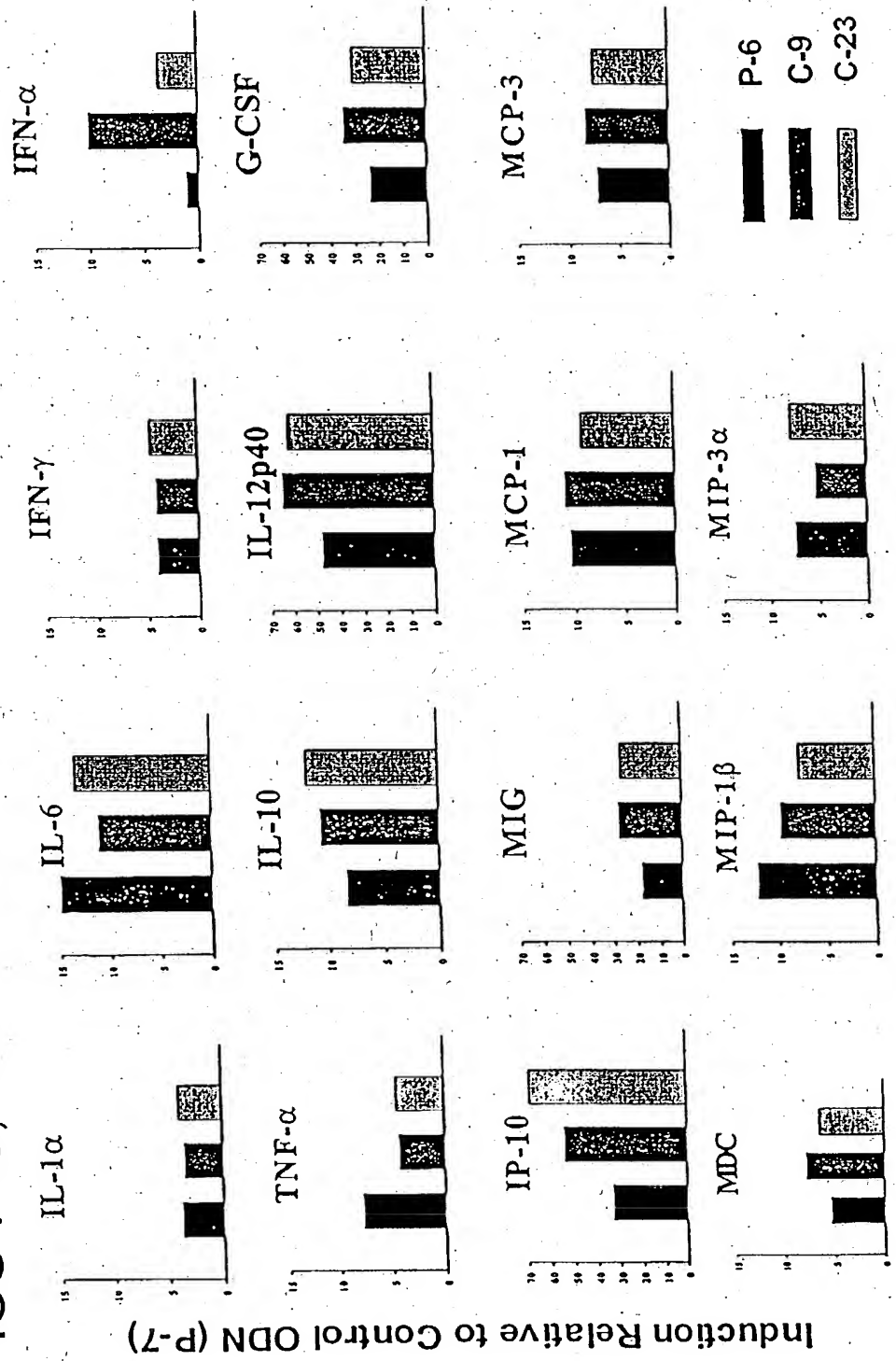


FIGURE 5

Mouse In vivo Cytokines

IL-12 p40

ALL ISS/CIC doses 20 µg

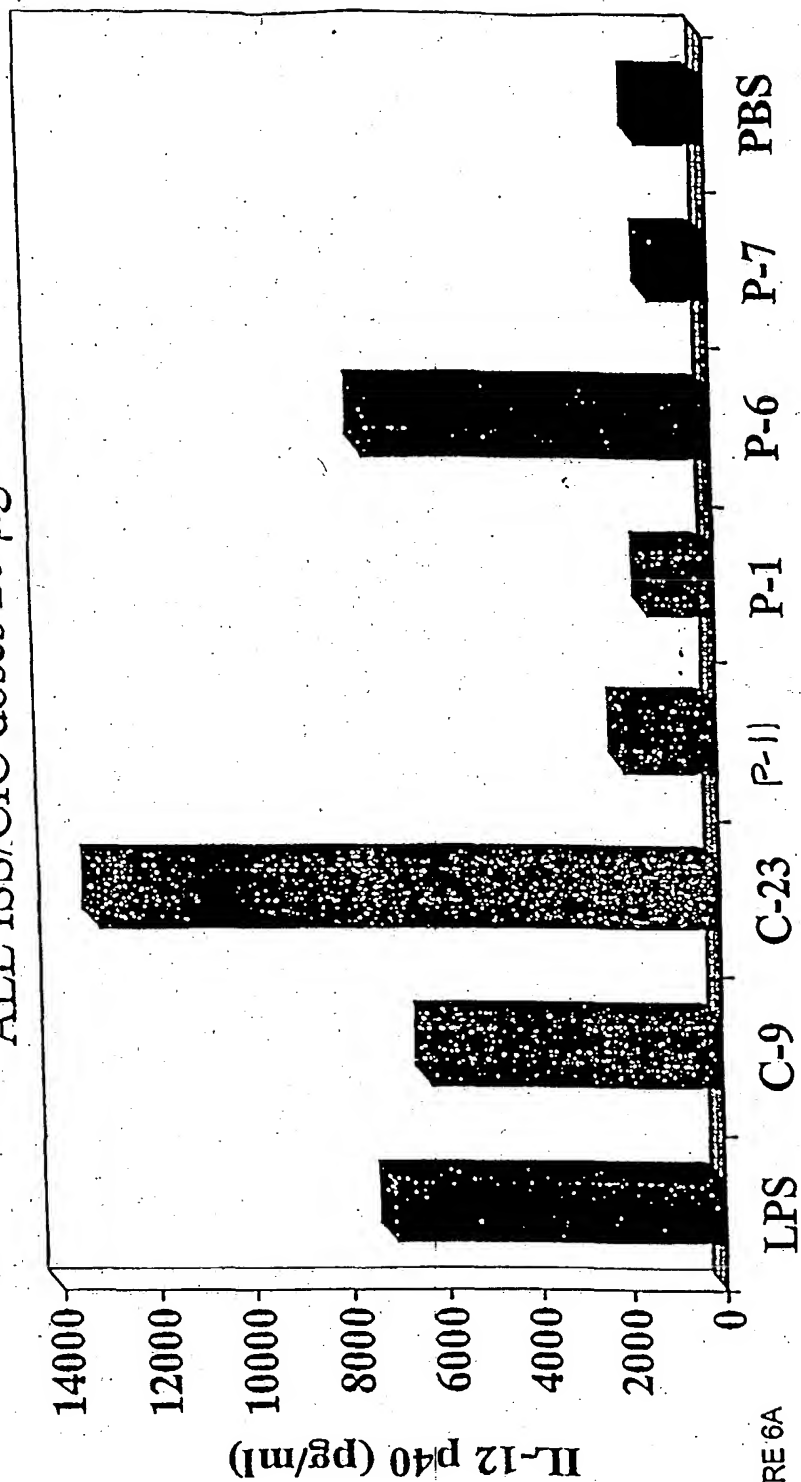


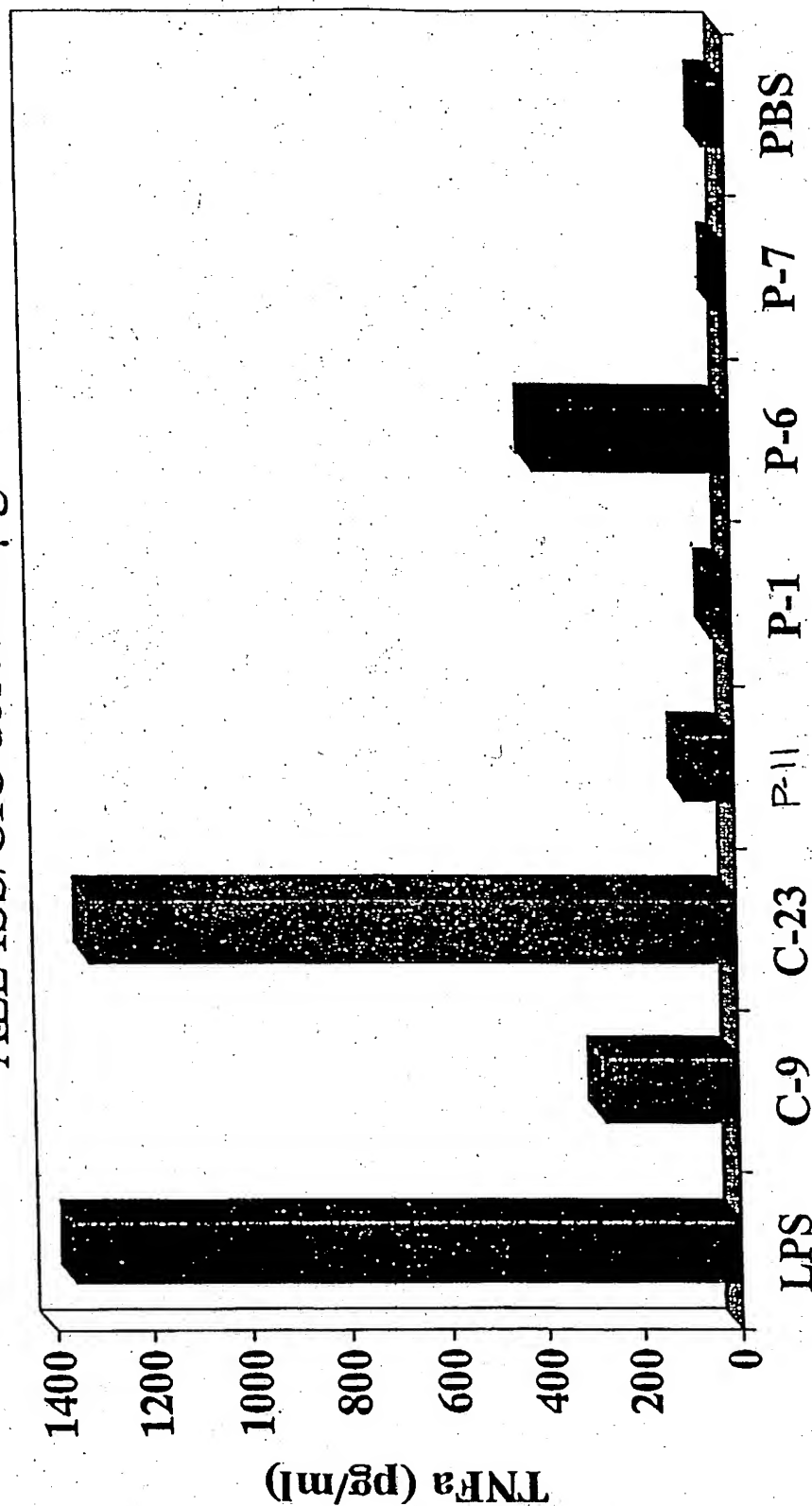
FIGURE 6A

Mouse In vivo Cytokines

TNF α

FIGURE 6B

ALL ISS/CIC doses 20 μ g

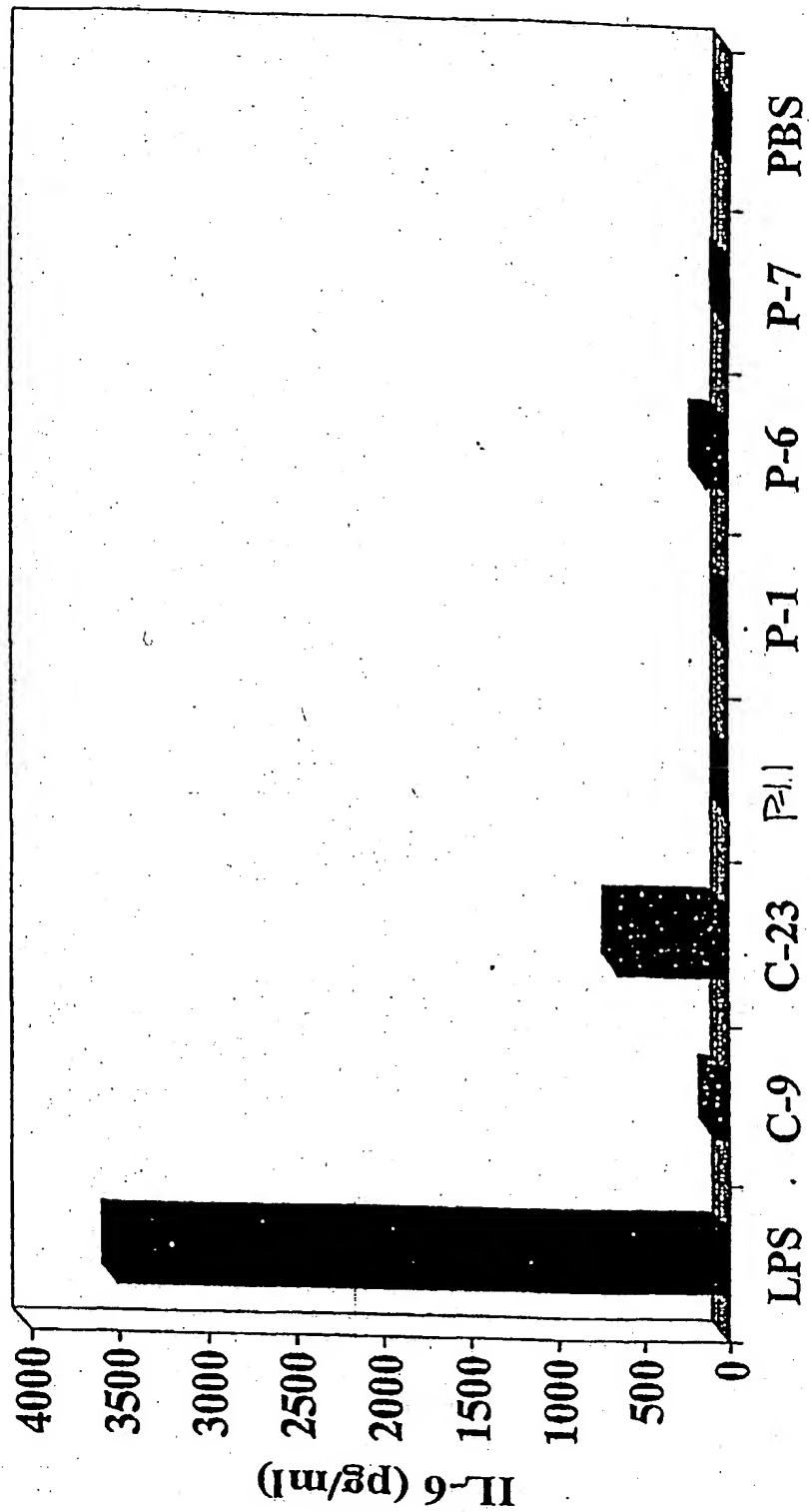


Mouse In vivo Cytokines

IL-6

FIGURE 6C

ALL ISS/CIC doses 20 µg



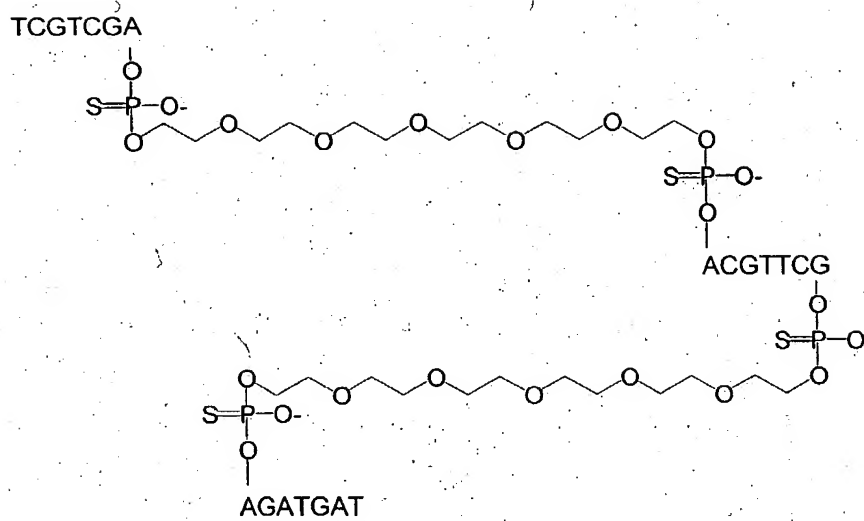


Figure 7A

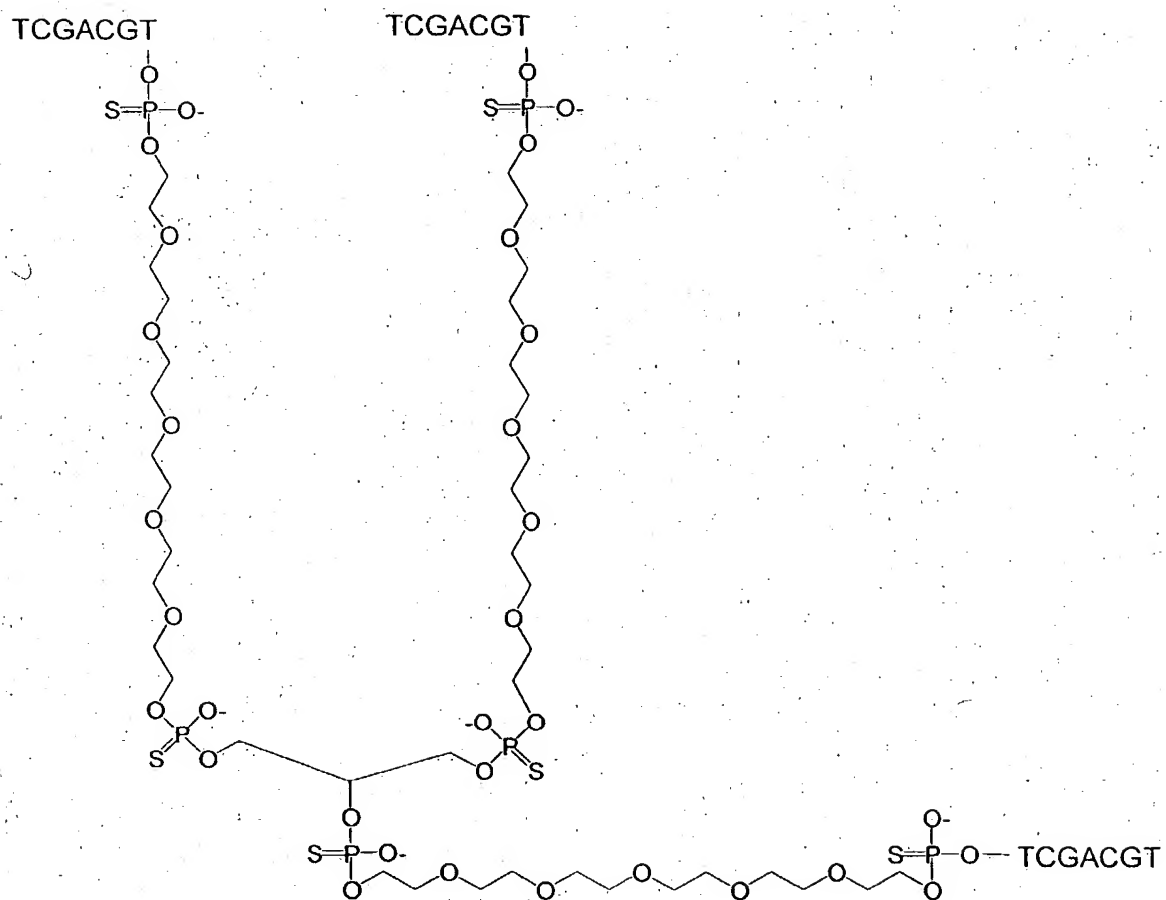


Figure 7B

Figure 8A

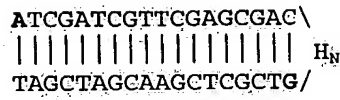


Figure 8B

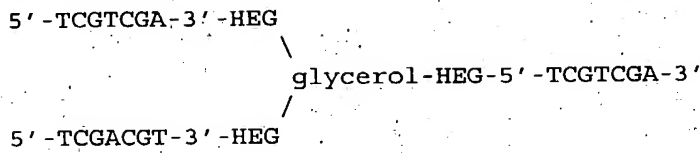


Figure 8C

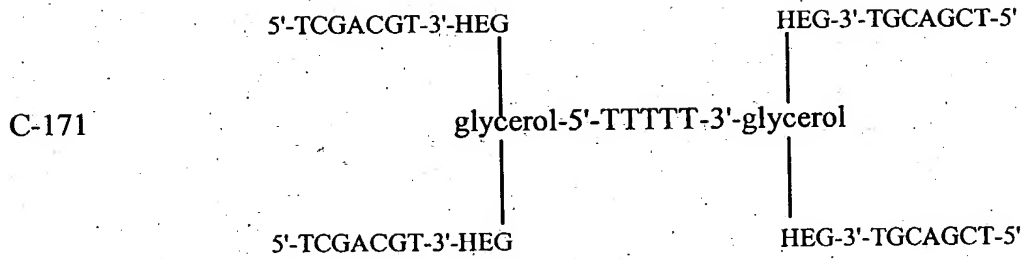
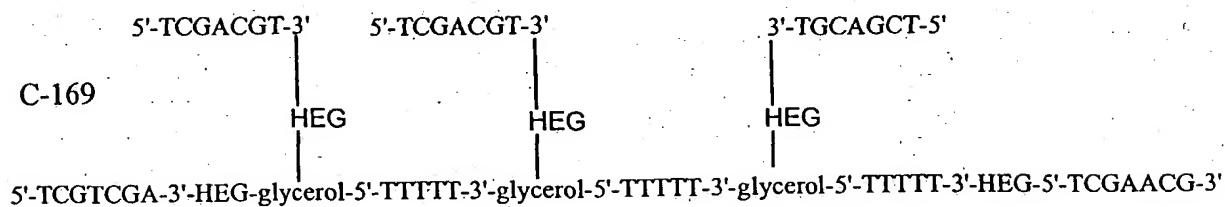
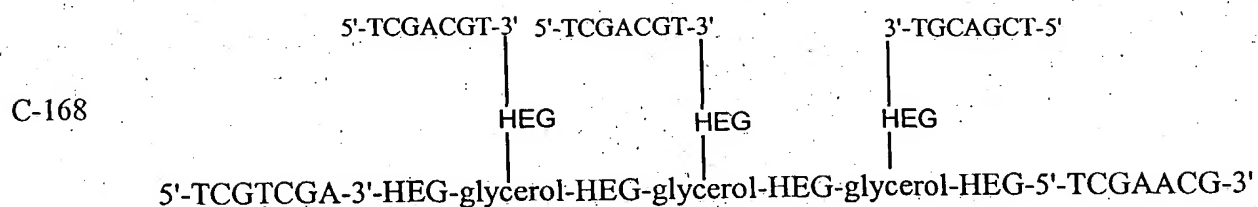


Figure 8D



All linkages are phosphorothioate

Figure 8E



All linkages are phosphorothioate

Figure 8F

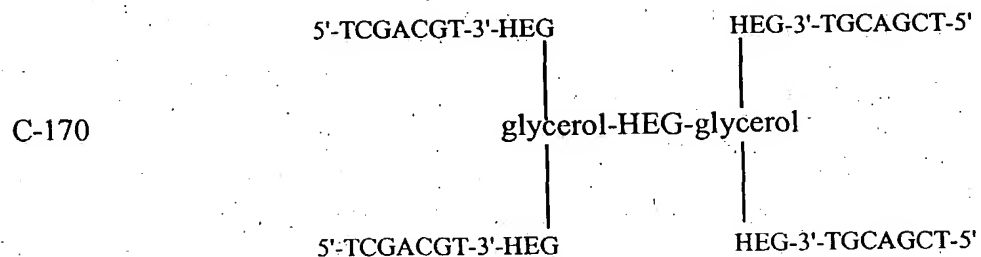


Figure 8G

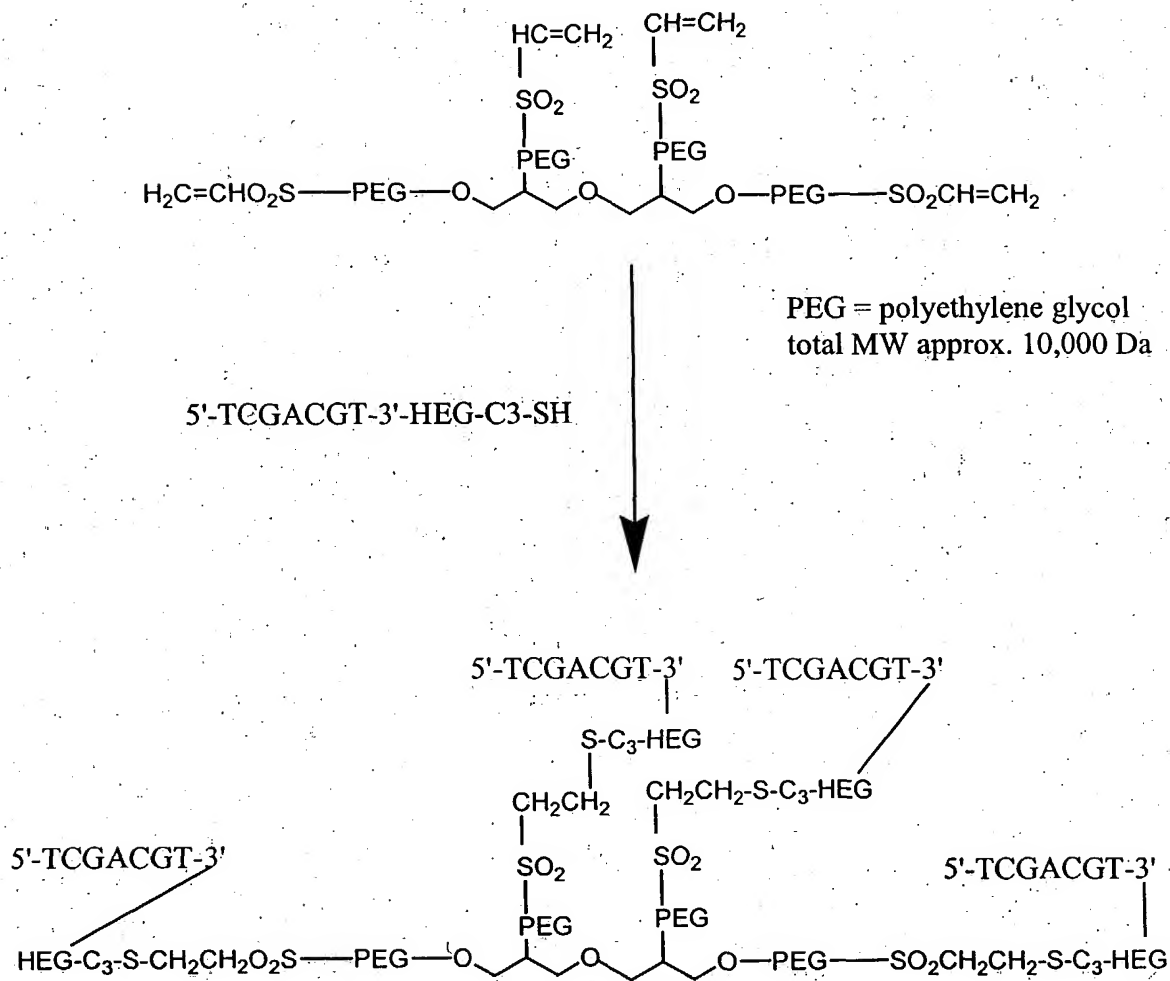


Figure 8H

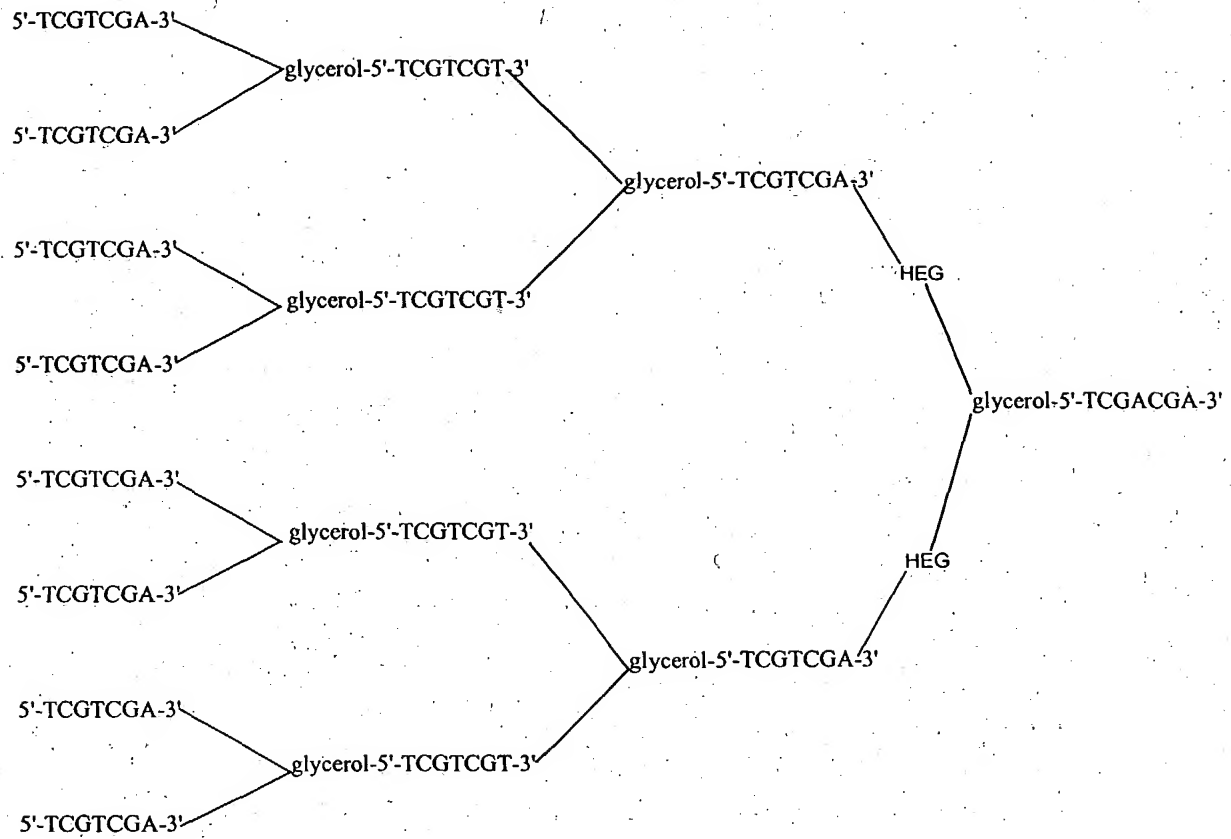


Figure 9A

ATCGATCGTTGAGCGAC-H_N-GTGCTCGAAGCATCGAT
|||||
TAGCTAGCAAGCTCGCTG-H_N-CAGCGAGCTTGCTAGCTA

Figure 9B

ATCGATCGTTGAGCGAC-H_N-AGGGTTTTTTTTTTT
|||||
TAGCTAGCAAGCTCGCTG-H_N-TCCCAAAAAAAAAAAAA

Figure 9C

5'-TCGATCGATCGATCGTTGAGCGAC-H_N-GTGCTCGAAGCATCGATTAAACAAAC
|||||
TAAATAATAGCTAGCAAGCTCGCTG-H_N-CAGCGAGCTTGCTAGCTATGCTAGCT-5'

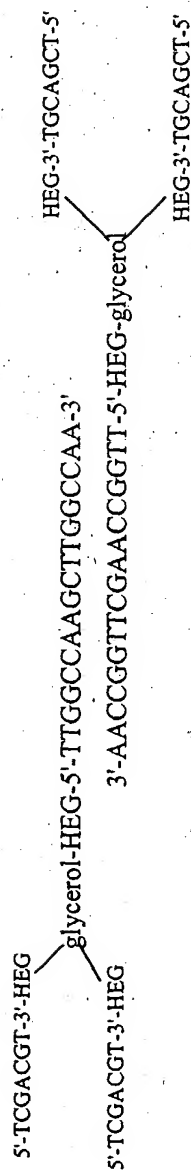
5'-TCGATTCGAGCG-3'-H_N-5'-TCGTTGAGCGGAATTCGCTGAACGATCTT-3'
|||||
3'-TTCTAGCAAGCTCGCTTAAGCGAGCTTGCT-5'-H_N-3'-GCGAGCTTAGCT

Figure 9D



Figure 9E

C-167 after annealing in the presence of salt



Linkages are all phosphorothioate

Figure 9F

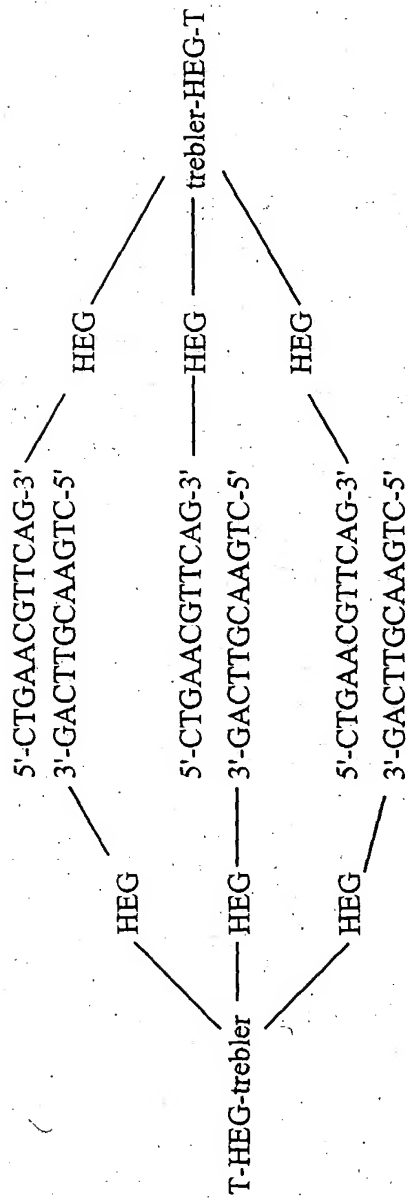
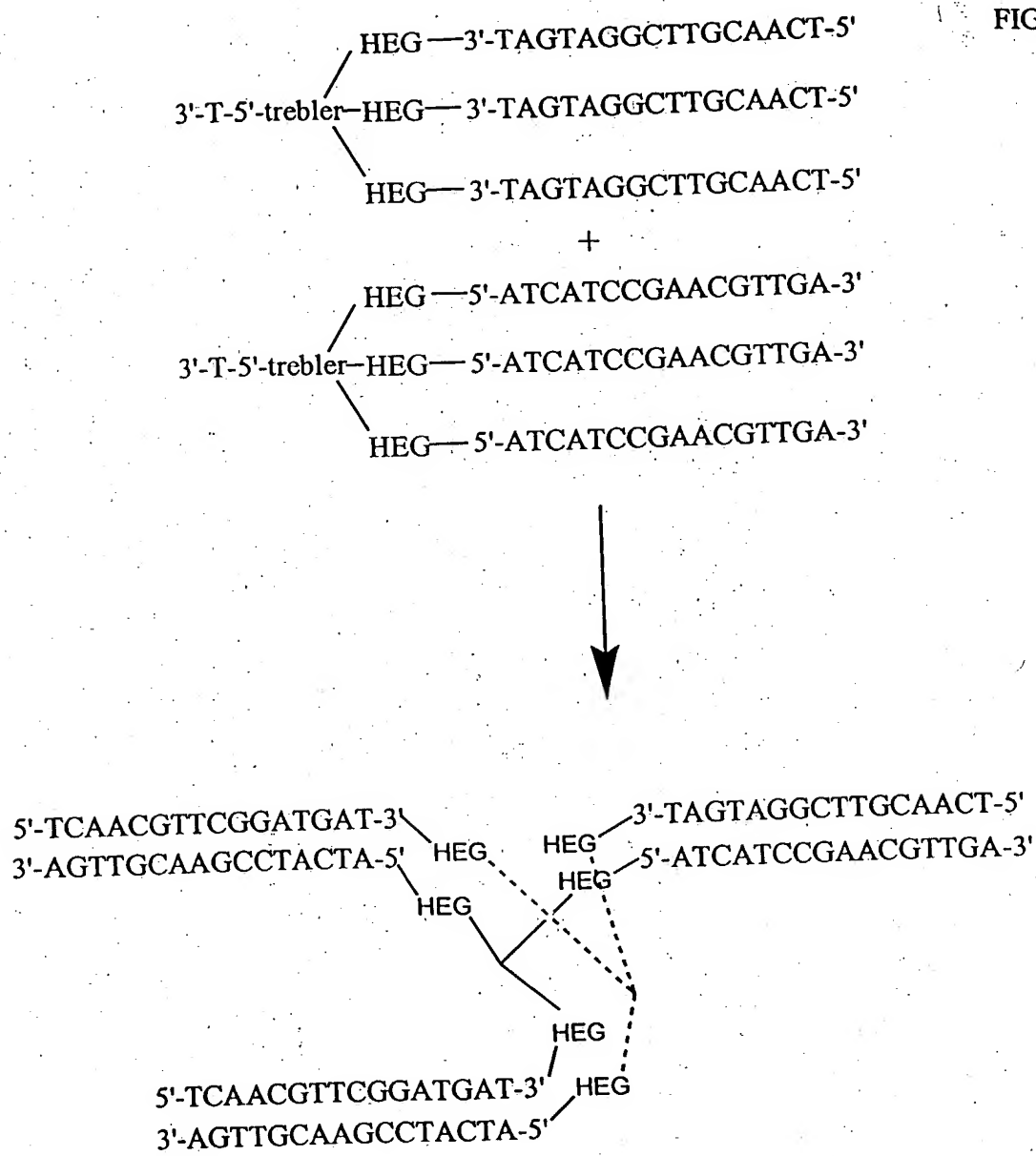


FIGURE 9G



Junction of long bonds represents the trebler-5'-T-3'

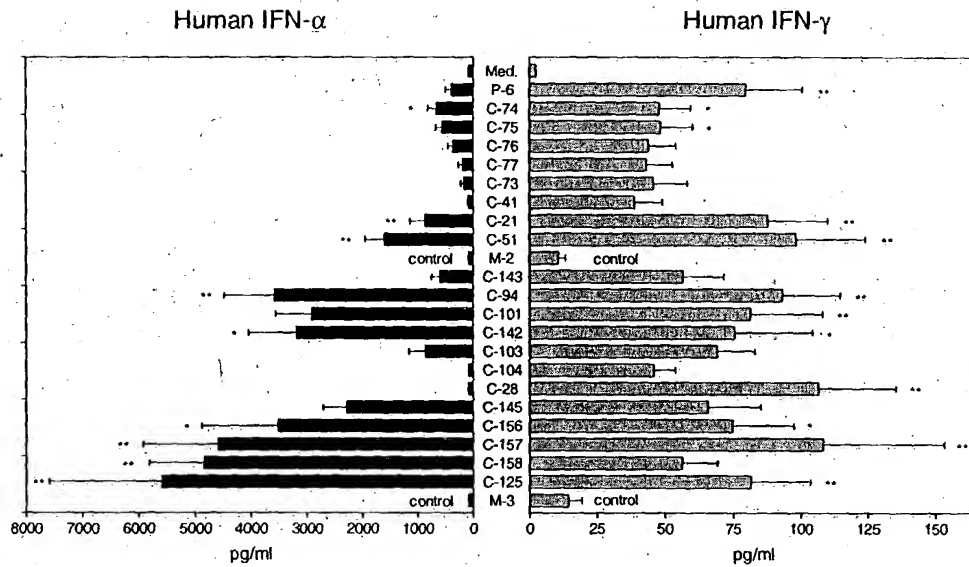


FIGURE 10

Human B cell proliferation

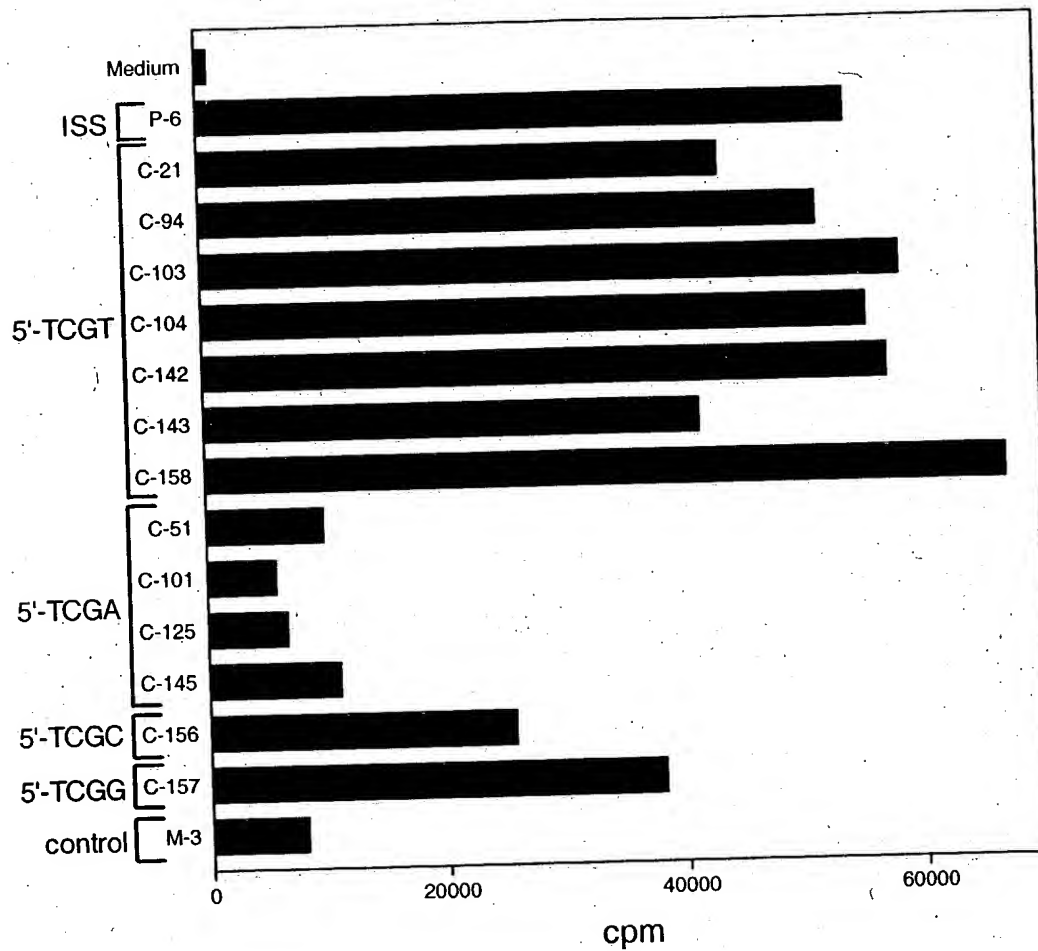


FIGURE 11